DANGEROUS WASTE PERMIT APPLICATION

DOE/RL-88-21 600 Area Purgewater Storage and Treatment Facility Rev. 4, 3/25/02

I. EPA/State I.D. No.

. 511	271.	102.100			•	W A 7 8 9 0 0 0 8 9 6 7		
FOR OFFICIA	AL USE ONLY							
Application				C				
Approved	(month/day/year)			Commen	S			
II. FIRST OR	REVISED APPLICATION	J						
						your facility or a revised application. If this PA/STATE I.D. Number in Section I above.		
X 1.1	eation (place an "X" below as Existing Facility (See instru	nd provide the ar	opropriate date) tion of "existing" facility. Compl	ete Item	2. New Facility (Comp	olete item below)		
MO 03	operation began or the date construction commenced. (mo/day/yr) operation began or							
B. Revised App	struction of the Hanford Faciloplication (place an "X" below cility Has An Interim Status	w and complete S	Section I above) 2. Facility Has A	Final Permit				
III. PROCESS	ES - CODES AND DESIG	N CAPACITIES	s					
B. Process Des 1. Amount 2. Unit Of	ded on the (Section III-C). sign Capacity - For each coo - Enter the amount.	de entered in colum	umn A enter the capacity of the p	process.	·	unit of measure used. Only the units of		
PROCESS				PROCESS CODE	APPROPRIATE UN PROCESS DESIGN	NITS OF MEASURE FOR N CAPACITY		
Tank Waste pile Surface in Containm DISPOSAL: Injection v Landfill Land appl Ocean dis Surface in TREATMEN Tank Surface in Incinerato Other (Us occurring	npoundment ent building storage** well ication posal npoundment VT: inpoundment ir e for physical, chemical, the		al treatment processes not ors. Describe the processes in	S01 S02 S03 S04 S06 D80 D81 D82 D83 D84 T01 T02 T03	of one foot) or hectar Acres or hectares Gallons per day or lit Gallons or liters Gallons per day or lit Gallons per day or lit	te meters** the that would cover one acre to a depth re-meter ters per day ters per day		
Units of Mea	omno Unit of Mo	asure Code	Units of Measure	Unit of Measure Code	Units of Meas	sure Unit of Measure Code		
	asure Unit of Me		Liters Per Day			A		
Liters		L	Tons Per Hour	D	Hectare-Meter	r F		
			Metric Tons Per Hour			В		
Cubic Meters	s	L	Gallons Per Hour	E	Hectares	Q		

ECY 030-31 Form 3 (Rev. 7/97)

FORM 3

^{**}Add per request of Washington State Department of Ecology (01/2001)

III. PROCESSES -- CODES AND DESIGN CAPACITIES (continued)

Example for Completing Section III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks; one tank can

hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

		8		B. Process Design Capacity							
Line No.	A. Process Code (from list above)			1. Amount (specify)	2. Unit of Measure (enter code)			For Official Use Only			
X-1	S	0	2	600		G					
X-2	T	0	3	20		Е					
1	S	9	9	3,785,400		L					
2	T	0	4	8,830		V					
3											
4											
5											
6											
7											
8											
9											
10											

C. Space for additional process codes or for describing other process (code "T04"). For each process entered here include design capacity.

S99

Process Code S99 (referenced in 40 CFR 265, Appendix I, Table 2) is being used to identify the storage activity in the 600 Area Purgewater Storage and Treatment Facility. The facility is permitted per WAC 173-303-400 Interim Status Facility Standards as a chemical, physical, and biological treatment unit per Subpart Q of 40 CFR Part 265 Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities.

The 600 Area Purgewater Storage and Treatment Facility consists of two above-ground modular containment units. One unit is in use. The process design for storage in this single unit is 3,785,400 liters. The second unit has never been used.

T04

Solar evaporation. Approximately 8,800 liters per day can be treated by solar evaporation in the single modular containment unit. This estimate is based on evaporation rates calculated for the Hanford Facility.

IV. DESCRIPTION OF DANGEROUS WASTES

- A. Dangerous Waste Number Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describe the characteristics and/or the toxic contaminants of those dangerous wastes.
- B. Estimated Annual Quantity For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. Unit of Measure For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE CODE
Pounds P Kilograms K
Tons T Metric Tons M

METRIC UNIT OF MEASURE CODE
Kilograms K
Metric Tons M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. Processes

Process Codes:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. Process Description: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- 1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
- 3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

Example for Completing Section IV (shown in line numbers X -1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line	Line		gerous		D F 4: 4 1 4 1	C. Unit of		D. Processes					
No.		Wast (enter	e No.		B. Estimated Annual Quantity of Waste	Measure (enter code)		1. Pr3cess Codes (enter)				2. Process Description (if a code is not entered in $D(1)$)	
X-1	K	0	5	4	900		P		T03	D80			
X-2	D	0	0	2	400		P		T03	D80			
X-3	D	0	0	1	100		P		T03	D80			
X-4	D	0	0	2					T03	D80			included with above

Photocopy this page before completing if you have more than 26 wastes to list.

	I.D. Number (enter from page 1)										
W	A	7	8	9	0	0	0	8	9	6	7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

Line		A. Dangerous			D. E. C	C. Unit of		D. Processes				
No.	Waste No. (enter code) B. Estimated Annual Quantity of Waste C. Cliff of Measure (enter code)				ess Codes eter)	2. Process Description (if a code is not entered in D(1))						
1	F	0	0	1	2,200		M		S99	T04		Storage/Solar Evaporation
2	F	0	0	2			\downarrow		V	V		Included with above
3	F	0	0	3			\downarrow		\downarrow	\downarrow		Included with above
4	F	0	0	4			\downarrow		\downarrow	\downarrow		Included with above
5	F	0	0	5			\downarrow		\downarrow	\downarrow		Included with above
6	D	0	0	7			\		₩	. ↓		Included with above
7	D	0	1	9			\downarrow		V	V		Include with above
8												
9					_							
10												

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

E. Use this space to list additional process codes from Section D(1) on page 3.

Liquids associated with well activities and other processes are stored and treated by solar evaporation in the 600 Area Purgewater Storage and Treatment Facility. Raw water may be added to the unit for operational purposes.

v. FACILITY DRAWING Refer to attached drawing(s).

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VI. PHOTOGRAPHS Refer to attached photograph(s).

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VII FACILITY GEOGRAPHIC LOCATION	This information is provided on the attached drawing(s) and photograph(s).
I VII. FAUILLI Y GELUGKAPHIC LAR A LICIN	This information is provided on the attached drawing(s) and photograph(s).

LATITUDE (degrees, minutes, & seconds)	LONGITUDE (degrees, minutes, & seconds)				

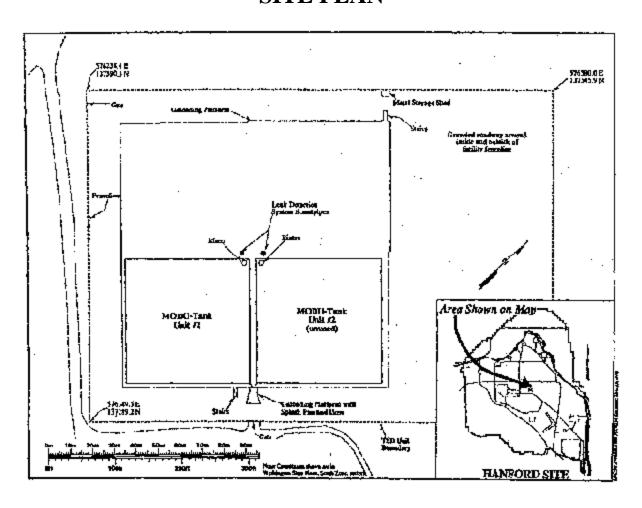
VIII. FACILITY OWNER							
A. If the facility owner is also the facility operator as listed	n Section VII on Form 1, "General Information", place an "X" in the	ne box to the left and skip to Section IX below.					
B. If the facility owner is not the facility operator as listed in	Section VII on Form 1, complete the following items:						
1. Name of Facility's Legal Owner 2. Phone Number (area code & no							
3. Street or P.O. Box	4. City or Town	5. St. 6. Zip Code					
IX. OWNER CERTIFICATION							
	am familiar with the information submitted in this and all attached I believe that the submitted information is true, accurate, and com nd imprisonment.						
Name (print or type)	Signature	Date Signed					
Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office	Keith A. Klein	03/25/2002					
X. OPERATOR CERTIFICATION							
	am familiar with the information submitted in this and all attached I believe that the submitted information is true, accurate, and com nd imprisonment.						
Name (print or type)	Signature	Date Signed					
SEE ATTACHMENT							

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Keith A. Klein	<u>3/25/02</u>
Owner/Operator	Date
Keith A. Klein, Manager	
U.S. Department of Energy	
Richland Operations Office	
T. E. Logan for	2/12/02
Co-Operator	Date
Michael C. Hughes, President	
Bechtel Hanford, Inc.	

600 AREA PURGEWATER STORAGE AND TREATMENT FACILITY SITE PLAN



siteplan

600 AREA PURGEWATER STORAGE AND TREATMENT FACILITY



46°45'33" 119°45'33"

89122121-3CN (PHOTO TAKEN 1989)